

Supplementary Table 3: Differentially expressed proteins in seminal plasma between patients with PE and control cases

<i>Protein description</i>	<i>Gene symbol</i>	<i>AV1</i>	<i>AV2</i>	<i>P</i>	<i>Fold change</i>	<i>Significance</i>
72 kDa type 4 collagenase	MMP2	0.710	1.290	<0.001	1.817	Yes
Isoform 2 of complement C1q tumor necrosis factor-related protein 1	C1QTNF1	0.752	1.248	<0.001	1.659	Yes
Plasma serine protease inhibitor	SERPINA5	0.614	1.386	<0.001	2.259	Yes
Laminin subunit gamma-1	LAMC1	0.731	1.269	0.001	1.737	Yes
Laminin subunit alpha-5	LAMA5	0.681	1.319	0.001	1.938	Yes
Gamma-glutamyl transpeptidase 1	GGT1	0.605	1.395	0.001	2.306	Yes
Isoform 2 of endoplasmic reticulum aminopeptidase 1	ERAP1	0.737	1.263	0.001	1.714	Yes
Isoform 2 of fructose-bisphosphate aldolase A	ALDOA	0.767	1.233	0.002	1.606	Yes
Carboxypeptidase M	CPM	0.702	1.298	0.003	1.849	Yes
Legumain	LGMN	0.770	1.230	0.003	1.598	Yes
Limbic system-associated membrane protein	LSAMP	0.691	1.309	0.003	1.893	Yes
Isoform 2 of acid ceramidase	ASAH1	0.758	1.242	0.003	1.638	Yes
Isoform 4 of calcium-dependent secretion activator 1	CADPS	0.689	1.311	0.004	1.904	Yes
Fibronectin	FN1	0.626	1.374	0.004	2.195	Yes
Laminin subunit beta-2	LAMB2	0.794	1.206	0.005	1.519	Yes
Vitamin K-dependent gamma-carboxylase	GGCX	0.457	1.543	0.005	3.381	Yes
Protein DJ-1	PARK7	0.661	1.339	0.005	2.025	Yes
Ribonuclease 4	RNASE4	0.717	1.283	0.005	1.788	Yes
Stromelysin-3	MMP11	0.635	1.365	0.005	2.147	Yes
Ganglioside GM2 activator	GM2A	0.746	1.254	0.006	1.682	Yes
Isoform A of protein CutA	CUTA	0.676	1.324	0.006	1.959	Yes
Amyloid-like protein 2	APLP2	0.670	1.330	0.007	1.985	Yes
Leukemia inhibitory factor receptor	LIFR	0.483	1.517	0.007	3.139	Yes
Peroxiredoxin-6	PRDX6	0.722	1.278	0.007	1.772	Yes
Sulfhydryl oxidase 1	QSOX1	0.787	1.213	0.007	1.541	Yes
Cadherin-1	CDH1	0.723	1.277	0.008	1.768	Yes
Isoform 2 of Transmembrane protease serine 2	TMPRSS2	0.672	1.328	0.008	1.976	Yes
Isoform 2 of biotinidase	BTD	0.719	1.281	0.008	1.782	Yes
Ceroid-lipofuscinosis neuronal protein 5	CLN5	0.786	1.214	0.009	1.545	Yes
Epididymal sperm-binding protein 1	ELSPBP1	0.732	1.268	0.009	1.731	Yes
Palmitoyl-protein thioesterase 1	PPT1	0.729	1.271	0.009	1.742	Yes
Ubiquitin-like modifier-activating enzyme 1	UBA1	0.646	1.354	0.010	2.097	Yes
Lysosomal alpha-glucosidase	GAA	0.637	1.363	0.010	2.138	Yes
Dipeptidyl peptidase 4	DPP4	0.729	1.271	0.011	1.745	Yes
Heat shock cognate 71 kDa protein	HSPA8	0.769	1.231	0.011	1.601	Yes
Thioredoxin domain-containing protein 16	TXNDC16	0.756	1.244	0.011	1.647	Yes
Receptor-type tyrosine-protein phosphatase S	PTPRS	0.573	1.427	0.011	2.493	Yes
Transitional endoplasmic reticulum ATPase	VCP	0.687	1.313	0.011	1.913	Yes
Probable serine carboxypeptidase CPVL	CPVL	0.696	1.304	0.012	1.872	Yes
Ras-related protein Rab-27A	RAB27A	0.681	1.319	0.013	1.937	Yes
Heat shock 70 kDa protein 1A/1B	HSPA1A	0.736	1.264	0.013	1.718	Yes
Isoform 3 of Malate dehydrogenase, cytoplasmic	MDH1	0.728	1.272	0.014	1.749	Yes
Sorbitol dehydrogenase	SORD	0.677	1.323	0.014	1.955	Yes
Peroxiredoxin-1	PRDX1	0.785	1.215	0.015	1.546	Yes
Interleukin-6 receptor subunit beta	IL6ST	0.653	1.347	0.015	2.064	Yes
Triosephosphate isomerase	TPI1	0.722	1.278	0.015	1.771	Yes
Kallikrein-2	KLK2	0.689	1.311	0.016	1.902	Yes
Isocitrate dehydrogenase (NADP) cytoplasmic	IDH1	0.701	1.299	0.017	1.852	Yes
Choline transporter-like protein 4	SLC44A4	0.648	1.352	0.017	2.088	Yes
Nucleoside diphosphate kinase	NME1-NME2	0.731	1.269	0.017	1.735	Yes
Prostate and testis expressed protein 4	PATE4	1.453	0.547	0.018	-2.657	Yes
Tumor susceptibility gene 101 protein	TSG101	0.673	1.327	0.018	1.973	Yes
14-3-3 protein zeta/delta (Fragment)	YWHAZ	0.528	1.472	0.018	2.786	Yes
L-lactate dehydrogenase B chain	LDHB	0.680	1.320	0.018	1.942	Yes
Phosphoglycerate kinase 1	PGK1	0.781	1.219	0.018	1.560	Yes

Contd...

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Neprilysin	MME	0.434	1.566	0.019	3.604	Yes
Phosphatidylethanolamine-binding protein 4	PEBP4	0.637	1.363	0.020	2.140	Yes
Isoform 2 of calyntenin-1	CLSTN1	0.724	1.276	0.020	1.762	Yes
Angiotensinogen	AGT	0.732	1.268	0.021	1.730	Yes
Cytosolic nonspecific dipeptidase	CNDP2	0.731	1.269	0.021	1.738	Yes
Kunitz-type protease inhibitor 1	SPINT1	0.767	1.233	0.023	1.607	Yes
Peptidyl-prolyl cis-trans isomerase B	PPIB	0.714	1.286	0.024	1.800	Yes
Junctional adhesion molecule A	F11R	0.658	1.342	0.025	2.041	Yes
Plasma protease C1 inhibitor	SERPING1	0.710	1.290	0.025	1.816	Yes
Isoform 5 of acyl-CoA-binding protein	DBI	0.683	1.317	0.026	1.928	Yes
Prostatic acid phosphatase	ACPP	0.680	1.320	0.026	1.942	Yes
Carboxypeptidase D	CPD	0.568	1.432	0.026	2.522	Yes
Plasma alpha-L-fucosidase	FUCA2	0.776	1.224	0.027	1.576	Yes
Metalloproteinase inhibitor 1	TIMP1	0.789	1.211	0.029	1.534	Yes
Isoform 7 of complement decay-accelerating factor	CD55	0.762	1.238	0.029	1.624	Yes
Immunoglobulin lambda-like polypeptide 5	IGLL5	0.791	1.209	0.029	1.528	Yes
Beta-2-microglobulin	B2M	0.790	1.210	0.030	1.532	Yes
Amyloid beta A4 protein	APP	0.785	1.215	0.030	1.548	Yes
Ras-related protein Rab-39A	RAB39A	0.696	1.304	0.030	1.875	Yes
Nesprin-1	SYNE1	0.556	1.444	0.031	2.598	Yes
Ribonuclease pancreatic	RNASE1	0.539	1.461	0.033	2.708	Yes
Fibromodulin	FMOD	0.722	1.278	0.034	1.769	Yes
Apolipoprotein D (fragment)	APOD	0.702	1.298	0.034	1.849	Yes
E3 ubiquitin-protein ligase RBBP6	RBBP6	0.452	1.548	0.034	3.429	Yes
Peptidyl-prolyl cis-trans isomerase A	PPIA	0.767	1.233	0.034	1.606	Yes
Abhydrolase domain-containing protein 12B	ABHD12B	0.658	1.342	0.035	2.039	Yes
Peroxiredoxin-2	PRDX2	0.723	1.277	0.036	1.766	Yes
Testican-3	SPOCK3	0.740	1.260	0.036	1.701	Yes
N-acetylgalactosamine-6-sulfatase	GALNS	0.595	1.405	0.037	2.363	Yes
Fructose-1,6-bisphosphatase 1	FBP1	0.665	1.335	0.037	2.009	Yes
L-xylulose reductase	DCXR	0.725	1.275	0.037	1.757	Yes
Lipopolysaccharide-induced tumor necrosis factor-alpha factor	LITAF	0.709	1.291	0.037	1.820	Yes
Annexin A5	ANXA5	0.739	1.261	0.038	1.706	Yes
Beta-defensin 131	DEFB131	0.794	1.206	0.039	1.518	Yes
Isoform 2 of HSP 90-alpha	HSP90AA1	0.657	1.343	0.040	2.044	Yes
HSP 90-beta	HSP90AB1	0.794	1.206	0.041	1.520	Yes
Kinesin-like protein KIF27	KIF27	0.476	1.524	0.042	3.204	Yes
Follistatin-related protein 1	FSTL1	0.730	1.270	0.042	1.740	Yes
Cysteine-rich secretory protein LCCL domain-containing 1	CRISPLD1	0.762	1.238	0.044	1.625	Yes
Proteasome subunit alpha type-5	PSMA5	0.592	1.408	0.044	2.378	Yes
Isoform 2 of Golgi apparatus protein 1	GLG1	0.789	1.211	0.045	1.536	Yes
Thioredoxin	TXN	0.790	1.210	0.046	1.530	Yes
Proteasome subunit alpha type-4	PSMA4	0.541	1.459	0.046	2.699	Yes
Isoform 3 of agrin	AGRN	0.666	1.334	0.046	2.003	Yes
Alpha-1-acid glycoprotein 2	ORM2	0.753	1.247	0.046	1.657	Yes
Cation-independent mannose-6-phosphate receptor	IGF2R	0.709	1.291	0.047	1.819	Yes
Pleiotrophin	PTN	0.697	1.303	0.047	1.869	Yes

PE: premature ejaculation; HSP: heat shock protein